

FILE 'HOME' ENTERED AT 12:57:36 ON 15 NOV 2006

FILE 'REGISTRY' ENTERED AT 12:58:15 ON 15 NOV 2006
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 14 NOV 2006 HIGHEST RN 913238-98-9
DICTIONARY FILE UPDATES: 14 NOV 2006 HIGHEST RN 913238-98-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

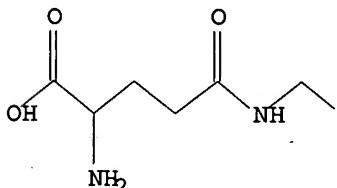
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>
Uploading C:\Program Files\Stnexp\Queries\theanine.str

L1 STRUCTURE UPLOADED

=> d 11
L1 HAS NO ANSWERS.
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11 fam sam
SAMPLE SEARCH INITIATED 12:59:11 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 471 TO ITERATE

100.0% PROCESSED 471 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
PROJECTED ANSWERS: 0 TO 0
PROJECTED ITERATIONS: 8118 TO 10722
BATCH **COMPLETE**

L2

0 SEA FAM SAM L1

=> s 11 fam full
FULL SEARCH INITIATED 12:59:22 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 9279 TO ITERATE

100.0% PROCESSED 9279 ITERATIONS
SEARCH TIME: 00.00.01

8 ANSWERS

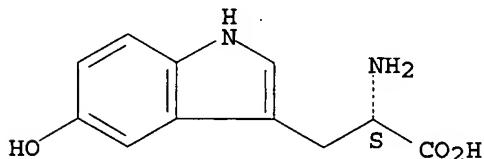
L3 8 SEA FAM FUL L1

=> d scan

L3 8 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN L-Tryptophan, 5-hydroxy-, mixt. with 2-aminoethanesulfonic acid,
N-ethyl-L-glutamine, L-glutamine and L-phenylalanine (9CI)
MF C11 H12 N2 O3 . C9 H11 N O2 . C7 H14 N2 O3 . C5 H10 N2 O3 . C2 H7 N O3 S
CI MXS

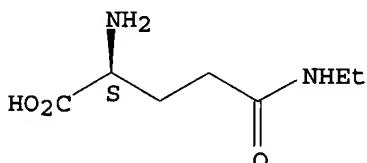
CM 1

Absolute stereochemistry. Rotation (-).

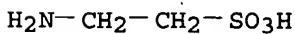


CM 2

Absolute stereochemistry. Rotation (+).

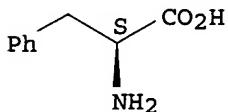


CM 3



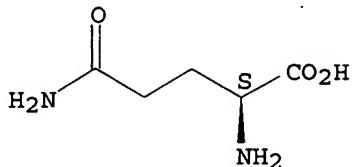
CM 4

Absolute stereochemistry. Rotation (-).



CM 5

Absolute stereochemistry.



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

| | | |
|----------------------|------------|---------|
| => file caplus | SINCE FILE | TOTAL |
| COST IN U.S. DOLLARS | ENTRY | SESSION |
| FULL ESTIMATED COST | 66.57 | 66.78 |

FILE 'CAPLUS' ENTERED AT 12:59:52 ON 15 NOV 2006
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FILE COVERS 1907 - 15 Nov 2006 VOL 145 ISS 21
FILE LAST UPDATED: 14 Nov 2006 (20061114/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

```
=> s 13
L4      598 L3

=> s mood(w)disorder or bipolar(w)disorder
       6602 MOOD
       119 MOODS
       6664 MOOD
             (MOOD OR MOODS)
       252838 DISORDER
       190394 DISORDERS
       395911 DISORDER
             (DISORDER OR DISORDERS)
       1288 MOOD (W)DISORDER
       37214 BIPO极AR
       95 BIPO极ARS
       37237 BIPO极AR
             (BIPO极AR OR BIPO极ARS)
       252838 DISORDER
       190394 DISORDERS
       395911 DISORDER
```

(DISORDER OR DISORDERS)

3715 BIPOLAR (W) DISORDER

L5 4635 MOOD (W) DISORDER OR BIPOLAR (W) DISORDER

=> s 14 and 15

L6 3 L4 AND L5

=> d ti au abs so py 1-3

L6 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

TI Compositions comprising theanine for treating or preventing mood disorders

IN Ozeki, Makoto; Juneja, Lekh Raj; Okubo, Tsutomu

AB A pharmaceutical composition for treating or preventing mood disorders, as well as a food or beverage for ameliorating or preventing mood disorders comprising theanine are provided. The pharmaceutical composition and the food and beverage are safe and have a significant suppressive effect on the depression in a mood disorder. For example, tablets were prepared by mixing frosted sugar 71.67%, trehalose 10%, L-theanine 13.33%, sucrose fatty acid ester 1%, and lemon flavor 4%, the mixture was granulated and compressed into a tablet of 0.75 g. The therapeutic effects of theanine tablets (200 mg theanine as one tablet twice a day) were demonstrated in patients with mood disorders with no side effects.

SO Can. Pat. Appl., 35 pp.

CODEN: CPXXEB

PY 2005

L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

TI Composition and method for treatment of neurophysiological conditions and maintenance of neurophysiological health

IN McCleary, Edward Larry; Forest, Carl A.; McCleary, Christine

AB A composition and method for therapeutic treatment of undesirable neurophysiol. conditions, such as those associated with menopause, the peri-menstrual period, mental conditions such as mood disorders, hyperactivity, impulsiveness, difficulty concentrating, chronic pain conditions,

and including neurodegenerative disorders such as age-associated or acoustic-related hearing loss, central, peripheral or autonomic neuropathies and for maintenance of neurophysiol. health, the composition comprising (i) an effective amount of three agents selected from the group consisting of vincocetine, huperzine A, magnesium, theanine, pyro-glutamic acid, dextromethorphan, and Vitex agnus-castus fruit; (ii) one agent selected from the group consisting of thiamin, niacin, pyridoxine, vanadium, and acetaminophen; and (iii) three agents selected from the group consisting of Valerian spp., Passiflora spp., magnolia spp., Scutellaria spp., taurine, melatonin, GABA and black cohosh. The composition may also include an effective amount of an agent selected from the group consisting of white willow bark, dehydroepiandrosterone (DHEA), pregnenolone, ketone bodies, 5-hydroxytryptophan (5-HTP) and a racemic mixture of D,L-phenylalanine (DLPA). The method comprises administering the above composition to a human for a therapeutically effective period. The composition may also be combined with a food, beverage, condiment, spice or salad dressing base to provide a food, beverage, condiment, spice or salad dressing product designed to overcome or prevent undesirable conditions frequently associated with menopause, chronic pain or neurophysiol. degeneration. For example, a formulation for menopausal women with a wide, but fairly typical, symptom profile including hot flash symptoms, night sweats, intermittent irritability, and mild memory concerns contained a combination of magnesium 400 mg, vincocetine 2 mg, huperzine 50 µg, theanine 100 mg, pyridoxine 20 mg, valerian extract 100 mg, taurine 150 mg, and magnolia extract 700 mg.

SO U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S. Ser. No. 890,067.

CODEN: USXXCO

PY 2005
2002
2005
2004
2005
2005
2006
2006
2006

L6 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
TI Theanine for control of mood disorders
IN Koseki, Makoto; Okubo, Tsutomu; Juneja, Reka Raju; Yamazaki, Nagahiro
AB Theanine (I) prepared from tea extract or by enzymic preparation from glutamine and ethylamine by glutaminase is used to prepare health food for control of mood disorders. Preparation of I-containing candies for control of mood disorders was shown. Unlike tricyclic antidepressant amitriptyline hydrochloride, I does not have side-effects such as drowsy and constipation.
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
PY 2003
2004

=> s depress?
L7 182300 DEPRESS?

=> s 14 and 17
L8 11 L4 AND L7

=> d ti au so py

L8 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
TI Compositions comprising theanine for treating or preventing mood disorders
IN Ozeki, Makoto; Juneja, Lekh Raj; Okubo, Tsutomu
SO Can. Pat. Appl., 35 pp.
CODEN: CPXXEB
PY 2005

=> d ti au so py 2-11

L8 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
TI Modulating effects of Japanese food materials on human brain function
AU Hatakeyama, Eiko
SO Nippon Eiyo; Shokuryo Gakkaishi (2005), 58(2), 107-111
CODEN: NESGDC; ISSN: 0287-3516
PY 2005

L8 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
TI Method for enhancing the natural reward system for exercise
IN Halevie-Goldman, Brian D.
SO U.S. Pat. Appl. Publ., 9 pp.
CODEN: USXXCO
PY 2004

L8 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
TI Oral composition for suppressing the appetite of a human being comprising L-theanine
IN Spiegel, Peter
SO U.S. Pat. Appl. Publ., 4 pp.
CODEN: USXXCO

PY 2004

L8 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
TI Composition comprising theanine
IN Ueda, Tomoko; Nagato, Yukiko; Tanaka, Yukiko; Okubo, Tsutomu; Kobayashi, Kanari; Aoi, Nobuyuki; Shu, Seiji; Juneja, Lekh Raj
SO PCT Int. Appl., 36 pp.
CODEN: PIXXD2

PY 1999
2001
2001
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1999
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2004
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2003

L8 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
TI Effect of potassium, magnesium and sulfur applied in different forms of fertilizers on free amino acid content in leaves of tea (*Camellia sinensis* L.)
AU Ruan, Jianyun; Wu, Xun; Ye, Yong; Hardter, Rolf
SO Journal of the Science of Food and Agriculture (1998), 76(3), 389-396
CODEN: JSFAAE; ISSN: 0022-5142
PY 1998

L8 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
TI Suitable level of nitrogen fertilizer for tea (*Camellia sinensis* L.) plants in relation to growth, photosynthesis, nitrogen uptake, and accumulation of free amino acids
AU Okano, Kunio; Chutani, Koji; Matsuo, Kiyoshi
SO Nippon Sakumotsu Gakkai Kiji (1997), 66(2), 279-287
CODEN: NISAAJ; ISSN: 0011-1848
PY 1997

L8 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
TI Effect of theanine on norepinephrine and serotonin levels in rat brain
AU Kimura, Ryohei; Murata, Toshiro
SO Chemical & Pharmaceutical Bulletin (1986), 34(7), 3053-7
CODEN: CPBTAL; ISSN: 0009-2363
PY 1986

L8 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
TI Relation between the flavor depressor and chemical composition in summer green tea
AU Nakagawa, Muneyuki; Anan, Toyomasa; Takayanagi, Hirotugu
SO Chagyo Gijutsu Kenkyu (1978), (55), 71-7
CODEN: CHGKAV; ISSN: 0366-6123
PY 1978

L8 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
TI Effect of alkylamides of glutamic acid and related compounds on the central nervous system. III. Effect of theanine on the spontaneous activity of mice
AU Kimura, Ryohei; Kurita, Masako; Murata, Toshiro
SO Yakugaku Zasshi (1975), 95(7), 892-5
CODEN: YKKZAJ; ISSN: 0031-6903
PY 1975

L8 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

TI Influence of alkylamides of glutamic acid and related compounds on the central nervous system. I. Central depressant effect of theanine
AU Kimura, Ryohei; Murata, Toshiro
SO Chemical & Pharmaceutical Bulletin (1971), 19(6), 1257-61
CODEN: CPBTAL; ISSN: 0009-2363
PY 1971

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